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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No : TC- 9548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TR/01

Lab ID : **CP-2018-01-22-12**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore

Date: 29/01/2018

Address : T. Dasarahalli Sub division, BBMP, Bangalore

Project Name : Improvements to roads and drains at between 3rd and 4th main cross roads Manjunatha Nagara in ward no.14 Bagalagunte.

Agency : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010.

Customer's Reference : BBMP/EE/DD/WO/79/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-18

Sample ID No : 2018-01-22-12 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	22/01/2018	29/01/2018	150.22 X 150.24 X 150.27	22569	8.345	390.4	17.3	17.3
2	Drain Concrete	M20	22/01/2018	29/01/2018	150.28 X 150.29 X 150.30	22586	8.367	393.0	17.4	
3	Drain Concrete	M20	22/01/2018	29/01/2018	150.31 X 150.20 X 150.25	22577	8.323	386.1	17.1	

Note:

The results pertain to the samples received and tested.
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig ..... Date..... BANGALORE

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-01-22-12
Customer	:	Assistant Executive Engineer, I Dasarahalli Sub division, BBMP, Bangalore
Address	:	I Dasarahalli Sub division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at between 3rd and 4th main cross roads Manjunatha Nagara in ward no 11 Bagalagunte
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No 280, 59th Cross, 17th 'C' main road, 3rd 'V' Block, Rajajinagar, Bangalore 560 010
Customer's Reference	:	BBMP/EE/DH/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-12 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 19/02/2018

Date: 19/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Concrete	M20	22/01/2018	19/02/2018	150.21 X 150.24 X 150.27	22568	8.324	521.3	23.1	23.4
2	Drain Concrete	M20	22/01/2018	19/02/2018	150.26 X 150.29 X 150.24	22583	8.354	535.2	23.7	
3	Drain Concrete	M20	22/01/2018	19/02/2018	150.28 X 150.20 X 150.25	22572	8.378	525.9	23.3	

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Certificate No. TC- 9548

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID : **CP-2018-01-08-15**

Customer : **Date: 11-01-18**

Address : Assistant Executive Engineer I Dasarahalli Sub division, BBMP, Bangalore

Project Name : T Dasarahalli Sub division, BBMP, Bangalore

Agency : Improvements to roads and drains at between 3rd and 4th main cross roads Manjunatha Nagara in ward no 14 Bagalagunte

Customer's Reference : Technical Manager West, KRIDL, Project Implementation Unit, No 280, 59th Cross, 17th 'C' main road, 3rd 'Y' Block, Rajajmagar, Bangalore-560 010

Source of Sample : BBMP/EE/DD/WO/79/2017-18

Sample Condition : Sample supplied by Agency

Date of Receipt : Satisfactory

Sample ID No : 08-01-18

Sample Type : 2018-01-08-15 /01

Reference to BIS codes : Birla Super 53grade

IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11) 1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 09-01-18

Environmental Conditions during test : Temperature 26°C
Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	-
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	-
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Certificate No : TC- 5646

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID	:	**CP-2018-01-08-15**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore. **Date: 06-02-18**
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at between 3rd and 4th main cross roads Manjunatha Nagara in ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-15 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-01-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Certificate No.: TC- 5548

Format No: CP/TP/01

TEST REPORT ON COARSE AGGREGATES

Date: 11-01-18

Lab ID	:	**CP-2018-01-08-15**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at between 3rd and 4th main cross roads Manjunatha Nagara in ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-15 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	321	321	2.1	97.9	90-100
3	20 mm	5663	5984	39.9	60.1	30-70
4	10 mm	4536	10520	70.1	29.9	10-35
5	4.75 mm	4153	14673	97.8	2.2	0-5
6	Pan	327	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-08-15** **Date: 11-01-18**

Sample ID No : 2018-01-08-15 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.67	-
4	Bulk Density(Loose) (Kg/l)	1.51	-
5	Bulk Density(Compacted) (Kg/l)	1.53	-
6	Water Absorption(%)	0.24	-

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ದಾಬಸ್‌ಪೇಟೆ

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